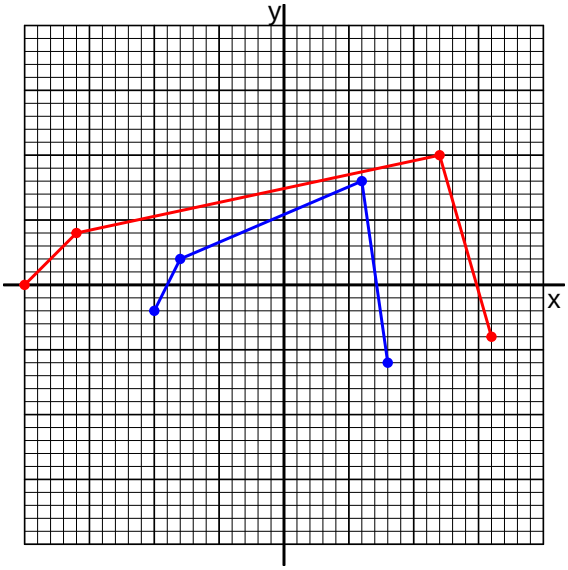
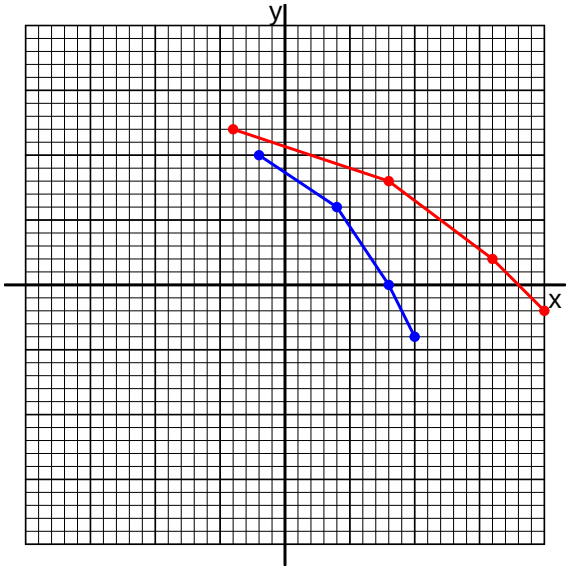
PCW_1002_v5 NAME:

1. Each of the curves below represent a different $y = f(x)$. For each, draw a second curve, $y = g(x)$, defined by the equation above the graph.

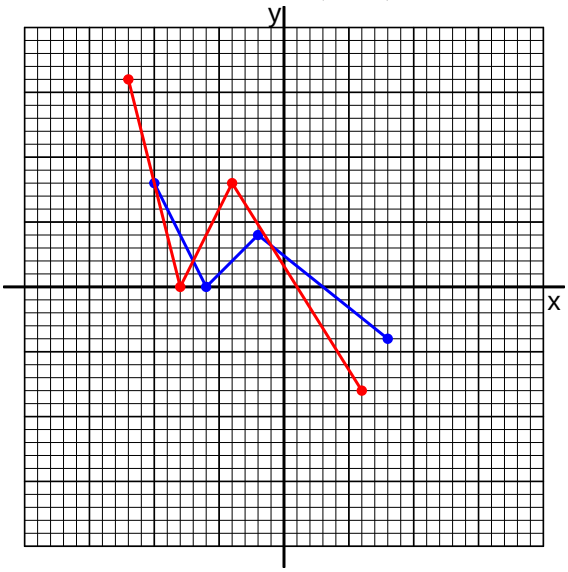
$g(x) = f\left(\frac{x}{2}\right) + 2$



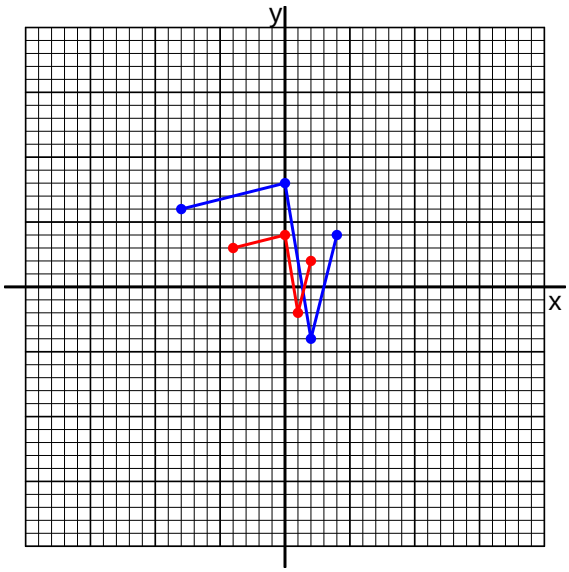
$g(x) = f\left(\frac{x}{2}\right) + 2$



$g(x) = 2 \cdot f(x+2)$

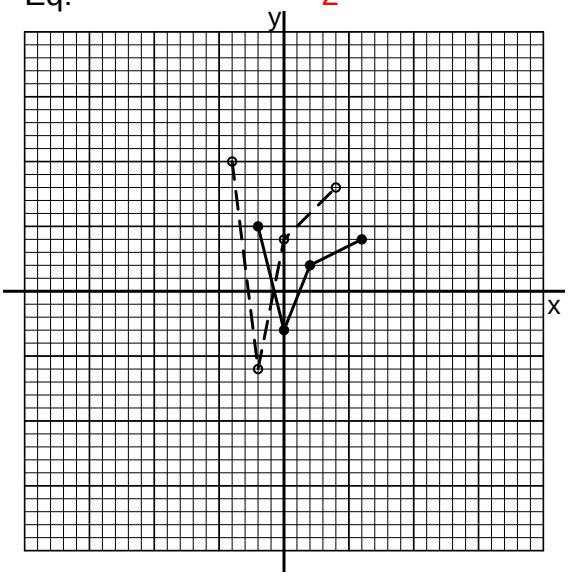


$g(x) = \frac{f(2x)}{2}$

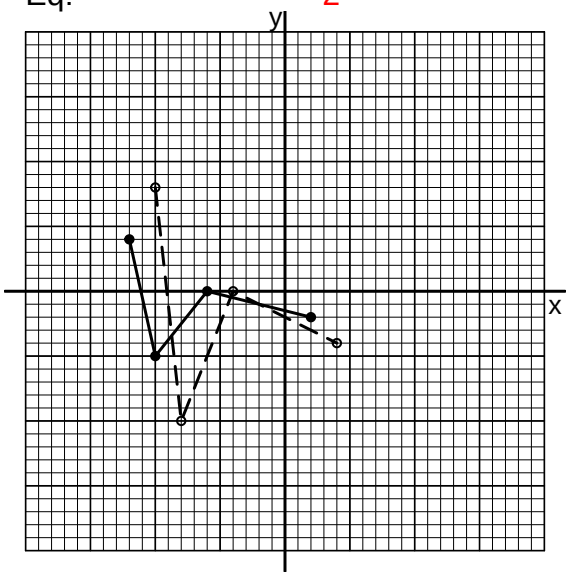


2. On each graph below, curve $y = f(x)$ is shown as a dashed line with open dots at key points, and curve $y = g(x)$ is shown as a solid line with closed dots at key points. For each, write an equation that defines $g(x)$ as a transformation of $f(x)$.

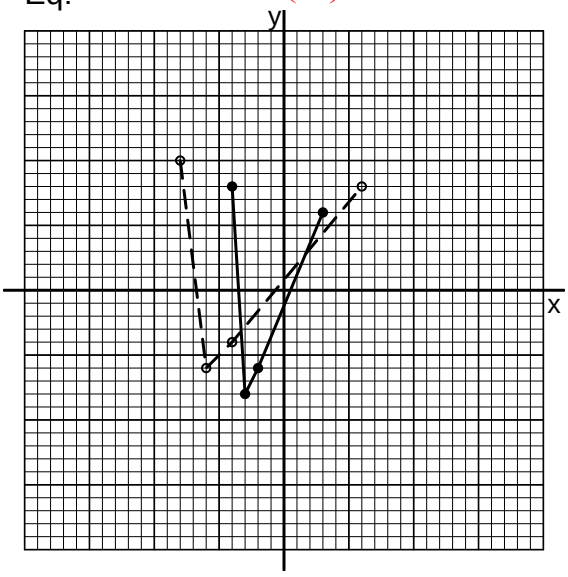
Eq: $g(x) = \frac{f(x-2)}{2}$



Eq: $g(x) = \frac{f(x+2)}{2}$



Eq: $g(x) = f(2x) - 2$



Eq: $g(x) = \frac{f(2x)}{2}$